> This Raw Listing contains the General Information
> Section and up to first 5 pages.

```
 1    <110> APPLICANT: Probst, Peter
 2          Bhatia, Ajay
 3          Skeiky, Yasir
 4          Fling, Steve
 5          Maisonneuve, Jeff
 6    <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATMENT AND
 7          DIAGNOSIS OF CHLAMYDIAL INFECTION
 8    <130> FILE REFERENCE: 210121.469C4
 9    <140> CURRENT APPLICATION NUMBER: US/09/454,684
10    <141> CURRENT FILING DATE: 1999-12-03
11    <160> NUMBER OF SEQ ID NOS: 303
12    <170> SOFTWARE: FastSEQ for Windows Version 3.0/4.0
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20          caaaataaga actctgcttt catgcagcct gtgaacgtat ccgctgattt agctgccatc     180
21          gttggtgcag gacctatgcc tcgcacagag atcattaaga aaatgtggga ttacattaag     240
22          gagaatagtc ttcaagatcc tacaaacaaa cgtaatatca atcccgatga taaattggct     300
23          aaagtttttg gaactgaaaa acctatcgat atgttccaaa tgacaaaaat ggtttctcaa     360
24          cacatcatta aataaaatag aaattgactc acgtgttcct cgtctttaag atgaggaact     420
25          agttcattct ttttgttcgt ttttgtgggt attactgtat ctttaacaac tatcttagca     480
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33          aaggagaata gtcttcaaga tcctacaaac aaacgtaata tcaatcccga tgataaattg     120
34          gctaaagttt ttggaactga aaaacctatc gatatgttcc aaatgacaaa aatggtttct     180
35          caa                                                                   183
36    <210> SEQ ID NO 3
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39    <213> ORGANISM: Chlamydia trachomatis
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50        tagggccagc tctttctaaa gagattattg ctagattgca gttgaatccc gaagctagag     180
51        ctgcagagtt gactgaggaa gaggttggtc gactaaacgc tcttttacag tcggattacg     240
52        ttgttgaagg ggatttgcgc cgtcgtgtgc aatctgatat caaacgtctg attactatcc     300
53        atgcttatcg tggacaaaga catagacttt ctttgcctgt tcgtggtcag agaacaaaaa     360
54        caaattctcg cacgcgtaag ggtaaacgta aaactattgc aggtaagaag aaataataat     420
55        ttttaggaga gagtgttttg gttaaaaatc aagcgcaaaa aagaggcgta aaaagaaaac     480
56        aagtaaaaaa cattccttcg ggcgttgtcc atgttaaggc tacttttaat aatacaattg     540
57        taaccataac agacc                                                     555
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65        Ala Asp Leu Ala Ala Ile Val Gly Ala Gly Pro Met Pro Arg Thr Glu
66                    20                  25                  30
67        Ile Ile Lys Lys Met Trp Asp Tyr Ile Lys Glu Asn Ser Leu Gln Asp
68                35                  40                  45
69        Pro Thr Asn Lys Arg Asn Ile Asn Pro Asp Asp Lys Leu Ala Lys Val
70            50                  55                  60
71        Phe Gly Thr Glu Lys Pro Ile Asp Met Phe Gln Met Thr Lys Met Val
72        65                  70                  75                  80
73        Ser Gln His Ile Ile Lys
74                        85
75   <210> SEQ ID NO 6
76   <211> LENGTH: 61
77   <212> TYPE: PRT
78   <213> ORGANISM: Chlamydia trachomatis
79   <400> SEQUENCE: 6
80        Ile Val Gly Ala Gly Pro Met Pro Arg Thr Glu Ile Ile Lys Lys Met
81        1               5                   10                  15
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83                    20                  25                  30
84        Asn Ile Asn Pro Asp Asp Lys Leu Ala Lys Val Phe Gly Thr Glu Lys
85                35                  40                  45
86        Pro Ile Asp Met Phe Gln Met Thr Lys Met Val Ser Gln
87            50                  55                  60
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89   <211> LENGTH: 36
90   <212> TYPE: PRT
91   <213> ORGANISM: Chlamyida trachomatis
92   <400> SEQUENCE: 7
93        Ala Ala Thr Ser Cys Glu Leu Ala Asn Gln His Gly His Leu Gln Phe
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 96                      20                  25                  30
 97          Gln Ser His Arg
 98                   35
 99   <210> SEQ ID NO 8
100   <211> LENGTH: 18
101   <212> TYPE: PRT
102   <213> ORGANISM: Chlamydia trachomatis
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104          Leu Arg His His Ala Ser Leu Gln Thr Asn Met Asp Ile Ser Asn Phe
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107   <210> SEQ ID NO 9
108   <211> LENGTH: 5
109   <212> TYPE: PRT
110   <213> ORGANISM: Chlamydia trachomatis
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115   <211> LENGTH: 11
116   <212> TYPE: PRT
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123   <212> TYPE: PRT
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140                      20                  25                  30
141          Ile Ile Ala Arg Leu Gln Leu Asn Pro Glu Ala Arg Ala Ala Glu Leu
142                   35                  40                  45
143          Thr Glu Glu Glu Val Gly Arg Leu Asn Ala Leu Leu Gln Ser Asp Tyr
144                   50                  55                  60
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145        Val Val Glu Gly Asp Leu Arg Arg Arg Val Gln Ser Asp Ile Lys Arg
146         65                  70                  75                  80
147        Leu Ile Thr Ile His Ala Tyr Arg Gly Gln Arg His Arg Leu Ser Leu
148                            85                  90                  95
149        Pro Val Arg Gly Gln Arg Thr Lys Thr Asn Ser Arg Thr Arg Lys Gly
150                           100                 105                 110
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152                           115                 120
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154   <211> LENGTH: 20
155   <212> TYPE: PRT
156   <213> ORGANISM: Chlamydia trachomatis
157   <400> SEQUENCE: 13
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159         1               5                  10                  15
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163   <211> LENGTH: 20
164   <212> TYPE: PRT
165   <213> ORGANISM: Chlamydia trachomatis
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186        attaaggttg ccaagtctgc tgccgaattg accgcaaata ttttggaaca agctggaggc     180
187        gcgggctctt ccgcacacat tacagcttcc caagtgtcca aaggattagg ggatgcgaga     240
188        actgttgtcg ctttagggaa tgcctttaac ggagcgttgc caggaacagt tcaaagtgcg     300
189        caaagcttct tctctcacat gaaagctgct agtcagaaaa cgcaagaagg ggatgagggg     360
190        ctcacagcag atctttgtgt gtctcataag cgcagagcgg ctgcggctgt ctgtagcatc     420
191        atcggaggaa ttacctacct cgcgacattc ggagctatcc gtccgattct gtttgtcaac     480
192        aaaatgctgg caaaaccgtt tctttcttcc caaactaaag caaatatggg atcttctgtt     540
193        agctatatta tggcggctaa ccatgcagcg tctgtggtgg gtgctggact cgctatcagt     600
194        gcggaaagag cagattgcga agcccgctgc gctcgtattg cgagagaaga gtcgttactc     660
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195          gaagtgccgg gagaggaaaa tgcttgcgag aagaaagtcg ctggagagaa agccaagacg          720
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197          gacgttttca aattggtgcc gctgcctatt acaatgggta ttcgtgcgat tgtggctgct          840
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202  <213> ORGANISM: Chlamydia trachomatis
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207                          20                  25                  30
208          Lys Thr Lys Gly Met Asp Lys Thr Ile Lys Val Ala Lys Ser Ala Ala
209                  35                  40                  45
210          Glu Leu Thr Ala Asn Ile Leu Glu Gln Ala Gly Gly Ala Gly Ser Ser
211              50                  55                  60
212          Ala His Ile Thr Ala Ser Gln Val Ser Lys Gly Leu Gly Asp Ala Arg
213          65                  70                  75                  80
214          Thr Val Val Ala Leu Gly Asn Ala Phe Asn Gly Ala Leu Pro Gly Thr
215                          85                  90                  95
216          Val Gln Ser Ala Gln Ser Phe Phe Ser His Met Lys Ala Ala Ser Gln
217                          100                 105                 110
218          Lys Thr Gln Glu Gly Asp Glu Gly Leu Thr Ala Asp Leu Cys Val Ser
219                  115                 120                 125
220          His Lys Arg Arg Ala Ala Ala Ala Val Cys Ser Ile Ile Gly Gly Ile
221              130                 135                 140
222          Thr Tyr Leu Ala Thr Phe Gly Ala Ile Arg Pro Ile Leu Phe Val Asn
223          145                 150                 155                 160
224          Lys Met Leu Ala Lys Pro Phe Leu Ser Ser Gln Thr Lys Ala Asn Met
225                          165                 170                 175
226          Gly Ser Ser Val Ser Tyr Ile Met Ala Ala Asn His Ala Ala Ser Val
227                          180                 185                 190
228          Val Gly Ala Gly Leu Ala Ile Ser Ala Glu Arg Ala Asp Cys Glu Ala
229                  195                 200                 205
230          Arg Cys Ala Arg Ile Ala Arg Glu Glu Ser Leu Leu Glu Val Pro Gly
231              210                 215                 220
232          Glu Glu Asn Ala Cys Glu Lys Lys Val Ala Gly Glu Lys Ala Lys Thr
233          225                 230                 235                 240
234          Phe Thr Arg Ile Lys Tyr Ala Leu Leu Thr Met Leu Glu Lys Phe Leu
235                          245                 250                 255
236          Glu Cys Val Ala Asp Val Phe Lys Leu Val Pro Leu Pro Ile Thr Met
237                          260                 265                 270
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242  <210> SEQ ID NO 18
243  <211> LENGTH: 18
     <212> TYPE: PRT
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VERIFICATION SUMMARY
PATENT APPLICATION **US/09/454,684**

Input Set: **I454684.RAW**

Line	?	Error/Warning	Original Text
602	W	"N" or "Xaa" used: Feature required	gatccgaatt cggcacgagg cantatttac tcccaaca
620	W	"N" or "Xaa" used: Feature required	gatccgaatt cggcacgagn tttttcctgt tttttctt
645	W	"N" or "Xaa" used: Feature required	ccgacaacgt attcattacg tgtaggcggt ttagaaag
1014	W	"N" or "Xaa" used: Feature required	gatccgaatt cggcacgaga aggtagatcc gatntcag
1092	W	"N" or "Xaa" used: Feature required	gaaaccttgn tctcttcgnc tctctcctgt agcanaca
1093	W	"N" or "Xaa" used: Feature required	tcagcgtatt cggactgatg ccctaaagat cccnggan
1122	W	"N" or "Xaa" used: Feature required	aagtatttt atagctgaag aacataggat gagtcatg
1123	W	"N" or "Xaa" used: Feature required	atgaaagact gaataagcta tttgatagcc cctttagt
1124	W	"N" or "Xaa" used: Feature required	nagctnagaa caaaattgct agaggagatg ttcgttct
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1958	W	"N" or "Xaa" used: Feature required	ctcgtagcag atctttgtgt gtctcataag cgcanagc
3272	W	"N" or "Xaa" used: Feature required	Gln Arg Thr Ser Asp Gln Gly Leu Val Arg A
3473	W	"N" or "Xaa" used: Feature required	Gly Ser Lys Val Xaa Phe
4668	W	"N" or "Xaa" used: Feature required	Phe Phe Thr Gly Asn Ser Ala Thr Asn Gly G
4672	W	"N" or "Xaa" used: Feature required	Gln Xaa Thr Leu Phe Ala Ser Asn Ser Ala L
4694	W	"N" or "Xaa" used: Feature required	Leu Lys Asp Arg Ala Val Leu Ser Xaa Pro S
4696	W	"N" or "Xaa" used: Feature required	Gln Ala Leu Leu Ile Met Glu Ala Gly Thr S
4698	W	"N" or "Xaa" used: Feature required	Asp Leu Lys Leu Xaa Thr Xaa Ser Ile Pro L
6140	W	"N" or "Xaa" used: Feature required	gcgnaaagag cagattgcga agccgctgc gctcgtat
6178	W	"N" or "Xaa" used: Feature required	Val Gly Ala Gly Leu Ala Ile Ser Ala Xaa A
6211	W	"N" or "Xaa" used: Feature required	gcgnaaagag cagattgcga agcccgctgc gctcgtat
6249	W	"N" or "Xaa" used: Feature required	Val Gly Ala Gly Leu Ala Ile Ser Ala Xaa A
6324	W	"N" or "Xaa" used: Feature required	tctctgttac agataaggag actagangca tctagttt
6549	W	"N" or "Xaa" used: Feature required	cgtgccgnt

PREVIOUSLY ERRORED SEQUENCES-EDITED

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 1    <210> 141
 2    <211> 18
 3    <212> PRT
 4    <213> Artificial Sequence
 5    <220>
 6    <223> Made in a lab
 7    <400> 141
 8          Tyr Leu Ala Thr Phe Gly Ala Ile Arg Pro Ile Leu Phe Val Asn Lys
 9           1               5                  10                  15
10          Met Leu
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> This Raw Listing contains the General
> Information Section and those Sequences
> containing ERRORS.

Does Not Comply
Corrected Diskette Needed

1	<110>	Probst, Peter
2		Bhatia, Ajay
3		Skeiky, Yasir
4		Fling, Steve
5		Maisonneuve, Jeff
6	<120>	COMPOSITIONS AND METHODS FOR TREATMENT AND
7		DIAGNOSIS OF CHLAMYDIAL INFECTION
8	<130>	210121.469C4
9	<140>	US/09/454,684
10	<141>	1999-12-03
11	<160>	303
12	<170>	FastSEQ for Windows Version 3.0/4.0

ERRORED SEQUENCES FOLLOW

	13	<210>	141
	14	<211>	18
	15	<212>	PRT
	16	<213>	Artificial Sequence
	17	<220>	
	18	<223>	Made in a lab
E-->	19	<400>	141
	20		Tyr Leu Ala Thr Phe Gly Ala Ile Arg Pro Ile Leu Phe Val Asn Lys
	21		1 5 10 15
	22		Met Leu

VERIFICATION SUMMARY
PATENT APPLICATION **US/09/454,684**

Input Set: **I454684.RAW**

Line	?	Error/Warning	Original Text
19	E	Sequence IDs 14 and 141 differ	<400> 14

CRF Errors Corrected by the STIC Systems Branch

Serial Number: 09/454,684

CRF Processing Date: 12/20/99
Edited by: _____
Verified by: _____ (STIC staff)

☐ Changed a file from non-ASCII to ASCII

☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.

ENTERED

☐ Edited a format error in the Current Application Data section, specifically:
_____

☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____.

☐ Added the mandatory heading and subheadings for "Current Application Data".

☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:
_____

☑ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: 14/
_____

☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
_____

☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐ Inserted colons after headings/subheadings. Headings edited included:
_____

☐ Deleted extra, invalid, headings used by an applicant, specifically:
_____

☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as_____ .

☐ Inserted mandatory headings, specifically: _____

☐ Corrected an obvious error in the response, specifically:
_____

☐ Edited identifiers where upper case is used but lower case is required, or vice versa.

☐ Corrected an error in the Number of Sequences field, specifically:
_____

☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

☐ Other:
_____
_____
_____

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.
3/1/95